

## Patent Abstracts of Japan

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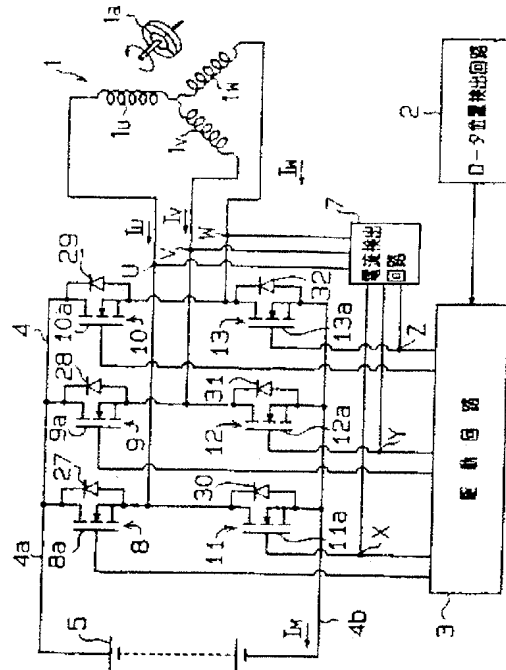
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TITLE : CONTROLLER FOR SYNCHRONOUS MOTOR



**ABSTRACT :** PURPOSE: To detect current with minimum loss thorough a very simple structure, by detecting conduction voltage of MOSFET in a power inverter and outputing the detected value as a motor current value.

**CONSTITUTION:** A drive circuit 3 outputs gate signals to gate terminals 8a~13a of respective MOSFET 8~13 in a power inverter 4 on the basis of a position detection signal SG1 fed from a rotor position detecting circuit 2 and makes ON/OFF control of respective MOSFETs 8~13. A current detection circuit 7 is connected to gate terminals 11a~13a of MOSFETs 11~13 in the power inverter 4 and respective windings IU, IV, IW. Conduction voltage of MOSFET is detected and the detected value is outputted as a motor current value.

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